Supplemental Amendment   *USSN 08/660,461*

(a)   [at least] a [first and a second] <u>plurality of</u> video mosaic generator<u>s, at one location, each</u>

configured to combine the captured images of a plurality of participants into respective first and

second mosaic images both for reproduction at the workstations of at least one [of the]

participant[s].

4

5.   (Twice Amended) The teleconferencing system of claim [2]<s>30</s>, further comprising:

(a)   a participant display selector responsive to [a participant] <u>an</u> input to select which [of the]

participants are to have their corresponding captured video image<u>s</u> displayed in [the] <u>a combined</u>

mosaic image.

<s>6.   The teleconferencing system of claim 5, wherein the participant display selector can</s>

<s>select the participants automatically.</s>

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7.   (Twice Amended) The teleconferencing system of claim 5, wherein the system is operable

to generate a [distributed] <u>combined</u> video mosaic of fewer participants than the number of actual

participants and the participant display selector is operable to select which of the actual

participants will have a corresponding video image displayed.

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8.   (Twice Amended) The teleconferencing system of claim [2]<s>30</s>, further comprising:

(a)   at least one codec configured to compress the <u>first</u> mosaic image and the [captured]

<u>second-location participant</u> image [of the third participant], and wherein

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[the distributed video] <u>at least one</u> mosaic generator can combine the compressed mosaic image and the compressed <u>participant</u> image [of the third participant] <u>into a combined mosaic image</u>.

~~9~~. (Twice Amended) [A] <u>The</u> teleconferencing system <u>of claim 30, further</u> [for conducting a teleconference among a plurality of participants, the system] comprising:

(a)   [a workstation associated with each of at least two participants and having a monitor and AV capture and reproduction capabilities to capture and reproduce video images and spoken audio of the participants;

(b)   an AV path for carrying AV signals representing video images and spoken audio of the participants among the workstations;

(c)   a video mosaic generator in communication with the AV path to combine the captured video images of a first, second and third participant into a mosaic image for reproduction at the workstation of at least the first participant; and

(d)]   an audio summer in communication with the AV path to receive captured audio of [the] first, second and third participants and <u>configured</u> to combine the received audio of only the second and third participants into an audio sum for reproduction at the workstation of the first participant.

[*Delete claim 10.*]

~~11~~. (Twice Amended) The teleconferencing system of claim [10] 4, further comprising:

(a)   [at least a first and a second video mosaic generator configured to combine the captured

images of a plurality of participants into respective first and second mosaic images; and

(b)]   an image synchronizer responsive to information relating to the <u>first and second</u> mosaic

images to synchronize the mosaic images [generated by the video mosaic generators such that

the first and second mosaic images can be reproduced together] <u>for joint reproduction</u> at the

workstation of at least one participant.

12.   The teleconferencing system of claim 11. further comprising:

(a)   a participant display selector configured to select which of the participants are to have

their corresponding captured video image/displayed in a mosaic image.

13.   The teleconferencing system of claim 12, wherein the participant display selector selects

the participants automatically.

Delete claims 14 and 15.

16.   The teleconferencing system of claim 9, further comprising:

(a)   an echo canceler to reduce echo during the reproduction of the audio sum.

Delete claims 17 and 18.

13 ~~19.~~ (Twice Amended) The teleconferencing system of claim ~~9~~ 6, wherein the [AV] <u>audio</u> reproduction capabilities associated with at least the workstation of the first participant includes a plurality of speakers and further comprising:

(a)   an audio control configured to control the audio sum at the first participant's workstation such that the composition of the audio, originating from [each of] the second and third participants, <u>is</u> reproduced at each speaker [is dependent] <u>based</u> on a position of the images of the second and third participants in [the reproduced] <u>a combined</u> mosaic image.

Delete claims 20 and 21.

17 ~~22.~~ [Once Amended] The method of claim [21] ~~23~~ 16, further comprising the steps of:

(a)   selecting one participant's image reproduced in [the distributed] <u>a combined</u> mosaic image; and

(b)   replacing the [distributed] <u>combined</u> mosaic image with the selected image.

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~~23.~~ (Twice Amended) The method of claim [21] ~~23~~ 16, further comprising the steps of:

(a)   combining the captured images of a plurality of participants into first and second mosaic images <u>both</u> for reproduction at the workstations of at least one [of the] participant[s].

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~~24.~~ (Twice Amended) [A] <u>The</u> method [for conducting a teleconference among a plurality of participants having workstations with associated monitors for displaying visual images, and with associated AV capture and reproduction capabilities for capturing and reproducing video images and spoken audio of the participants, the workstations being interconnected by a first

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network, the network providing a data path for carrying digital data signals among the workstations, the method] of claim 33, further comprising the steps of:

(a)   [moving AV signals representing video images and spoken audio of the participants among the workstations;

(b)   combining the captured images of a first, second and third of the participants into a mosaic image for reproduction at the workstations of the first, second and third participants;

(c)]   receiving the captured audio of [the] a first, second and third participant[s];

([d] b) combining the received audio of only the second and third participants into an audio sum; and

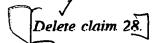([e] c) reproducing the audio sum at the workstation of the first participant.

[Delete claim 25.]

21
26.   (Twice Amended) The method of claim [25] 23, further comprising the step[s] of: *18*

(a)   [combining the captured images of a plurality of participants into first and second mosaic images; and

(b)]   synchronizing the mosaic images such that a plurality of mosaic images can be reproduced at the workstations of at least one of the participants.

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27.   (Twice Amended) The method of claim [24] 22, further comprising the step of: *17*

(a)   selecting which of the participants are to have their corresponding captured video image displayed in the mosaic image.

[Delete claim 28.]

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~~29.~~   (Twice Amended) The method of claim ~~24~~, wherein the [AV] audio reproduction

capabilities associated with at least the workstation of the first participant includes a plurality of

speakers, the method further comprising the steps of:

(a)   controlling the reproduction of the audio sum at the first participant's workstation such

that the composition of the audio, originating from [each of] the second and third participants,

is reproduced at each speaker [is dependent] based on a position of the images of the second and

third participants in the [reproduced] combined mosaic image.

Add the following claims:

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30.   A teleconferencing system for conducting a teleconference between first and second

locations, the system comprising:

(a)   a plurality of workstations at the first location and at least one workstation at the second

location, each workstation being associated with at least a participant and having a monitor and

participant audio and video capture and reproduction capabilities;

(b)   an AV path for carrying AV signals representing participant video images and spoken

audio among the workstations;

(c)   a first video mosaic generator associated with the first location and configured to

     (1)   combine captured video images, of at least two first-location-participants,

     into a first mosaic image,

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(2)   receive a second-location-participant video image from the second location, and

(3)   combine at least a portion of the first mosaic image with the received second-location-participant video image to form a first combined mosaic image for reproduction at a first location workstation; and

(d)   a second video mosaic generator associated with the second location and configured to

(1)   receive the first mosaic image from the first mosaicing circuitry, and

(2)   combine at least a portion of the first mosaic image with the second-location-participant video image to form a second combined mosaic image for reproduction at a workstation at the second location.

31.   A teleconferencing system for conducting a teleconference between first and second locations the system comprising:

(a)   a plurality of workstations at the first location and at least one workstation at the second location, each workstation being associated with at least a participant and having a monitor and participant audio and video capture and reproduction capabilities;

(b)   an AV path for carrying AV signals representing participant video images and spoken audio among the workstations;

(c)   a first video mosaicing generator associated with the first location and configured to combine captured video images, of at least two first-location-participants, into a first mosaic image;

(d)   a second video mosaic generator configured to receive the first mosaic image and combine at least a portion thereof with a participant video image captured at the second location to form a second mosaic image for reproduction at least one workstation;

(e)   a data path providing a data path along which data can be shared among the workstations; and

(f)   a data conference manager for managing a data conference, during which the shared data is displayed on the workstation monitors of at least two participants.

32.   A teleconferencing system for conducting a teleconference between first and second locations, the system comprising:

(a)   a plurality of workstations at the first location and at least one workstation at the second location, each workstation being associated with at least a participant and having a monitor and participant audio and video capture and reproduction capabilities;

(b)   a first video mosaic generator associated with the first location and configured to combine captured video images, of at least two first-location-participants, into a first mosaic image;

(c)   a second video mosaic generator configured to receive the first mosaic image and combine at least a portion thereof with a participant video image captured at the second location to form a second mosaic image for reproduction at least one workstation;

(d)   an AV path for carrying AV signals representing participant video images and spoken audio among the workstations; and

(e)   an audio/video switch in association with the AV path and configured to control the carrying of AV signals representing individual participant and mosaic video images between the mosaic generator, the locations and the workstations.

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35.   A method for conducting a teleconference between first and second locations in which the first location includes a plurality of workstations and the second location includes at least one workstation, and in which each workstation is associated with at least one participant and has a monitor and participant audio and video capture and reproduction capabilities, the method comprising the steps of:

(a)   moving AV signals representing participant video images and spoken audio among the workstations;

(b)   creating a first combined mosaic image at the first location by

        (1)   combining captured video images, of at least two first-location-participants, into a first mosaic image,

        (2)   receiving a second-location-participant video image from the second location, and

        (3)   combining at least a portion of the first mosaic image with the received second-location-participant video image to form the first combined mosaic image;

(d)   reproducing the first combined mosaic image at a first location workstation;

(e)   creating a second combined mosaic image at the second location by

        (1)   receiving the first mosaic image from the first mosaicing circuitry, and

        (2)   combining at least a portion of the first mosaic image with the second-location-participant video image to form the second combined mosaic image; and

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